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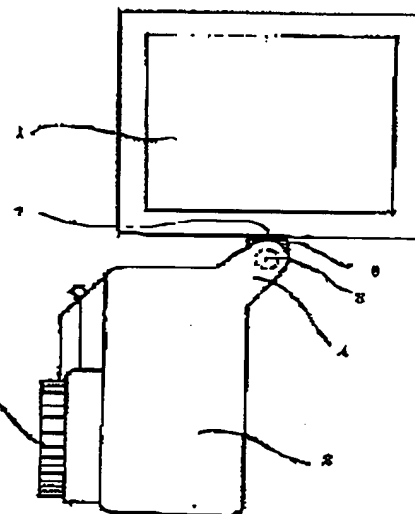
(72)Inventor : NISHIZAWA KYOICHI

(54) VIDEO MONITOR HORIZONTAL VERTICAL TURNING BASE

(57)Abstract:

PURPOSE: To contain a camcorder in a space at rear side of a monitor, to move the monitor to the upper part of the camcorder, to allow the camera to pick up the image of a photographer itself and to reduce a load exerted onto a drive shaft through the turning of the monitor only.

CONSTITUTION: A monitor horizontal drive shaft 7 is provided in the middle of the bottom side of a monitor 1, a horizontal drive bearing is provided in the middle of a turning base 6 and the monitor 1 and the turning base 6 are connected by the monitor horizontal drive shaft 7 and the horizontal drive bearing. Furthermore, a bearing 4 is provided to a rear side upper part, left and right sides of the camcorder 2, a monitor vertical drive shaft 3 is provided to the bearing 4, a turning base bearing is provided to the left and right sides of the turning base 6 and the turning base 6 and the bearing 4 are connected by the rotary base bearing and the monitor vertical drive shaft 3. Furthermore, the monitor 1 is turned vertically from the rear side of the camcorder to the upper face by the monitor vertical drive shaft 3.



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(54) 【発明の名称】 ビデオモニター水平垂直回転台

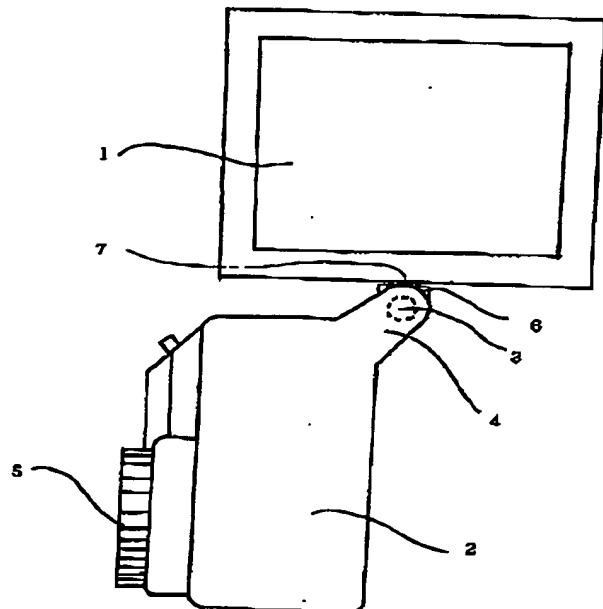
(57) 【要約】 (修正有)

【目的】 モニターの裏面の面積内にカメラ一体型VTRを収めることが出来る。カメラ一体型VTRの上部にモニターを移動させることが出来る。撮影者自身も揺れる。モニターだけを回転させるので、回転軸にかかる荷重が少ない。

【構成】 (イ) モニター1の底面中央にモニター水平回転軸7を設け、回転台6の中央に水平回転軸受を設け、モニター水平回転軸7と水平回転軸受で、モニター1と回転台6を接続する。

(ロ) カメラ一体型VTR2の背面上部、左右に軸受4を設け、軸受4にモニター垂直回転軸3を設け、回転台6の左右に回転台軸受を設け、回転台軸受とモニター垂直回転軸3で回転台6と軸受4を接続する。

(ハ) モニター垂直回転軸3でモニター1をカメラ一体型VTR2の背面から、上面まで垂直回転出来るようにする。



【特許請求の範囲】

【請求項1】 (イ) 薄型画像表示装置 (1) 『以後、モニターと書く』の底面中央にモニター水平回転軸 (7) を設け、回転台 (6) の中央に水平回転軸受 (9) を設け、モニター水平回転軸 (7) と水平回転軸受 (9) で、モニター (1) と回転台 (6) を接続する。

(ロ) カメラ一体型VTR (2) の背面上部、左右に軸受 (4) を設け、軸受 (4) にモニター垂直回転軸

(3) を設け、回転台 (6) の左右に回転台軸受 (8) を設け、回転台軸受 (8) とモニター垂直回転軸 (3) で回転台 (6) と軸受 (4) を接続する。

(ハ) モニター垂直回転軸 (3) でモニター (1) をカメラ一体型VTR (2) の背面から、上部面まで垂直回転出来るようにする。

以上のように構成された、ビデオモニター水平垂直回転台。

【発明の詳細な説明】

【0001】

【産業上の利用分野】 この発明は、モニター『3型又は4型位』の裏面積と同等の、カメラ一体型VTRを作る

【0002】

【従来の技術】 従来、モニターを見て撮影するモニター垂直回転型カメラ一体型VTRは、モニターの側面でビデオカメラを垂直回転させていた。

【0003】

【発明が解決しようとする課題】 これには、次のような欠点があった、モニターの横にビデオカメラを回転軸で接続しているためモニターの裏面の面積内にカメラ一体型VTRが収まらない。

【0004】

【問題を解決するための手段】 モニター (1) の底面中央にモニター水平回転軸 (7) を設け、回転台 (6) の中央に水平回転軸受 (9) を設け、モニター水平回転軸 (7) と水平回転軸受 (9) で、モニター (1) と回転台 (6) を接続する。カメラ一体型VTR (2) の背面上部、左右に軸受 (4) を設け、軸受 (4) にモニター垂直回転軸 (3) を設け、回転台 (6) の左右に回転台軸受 (8) を設け、回転台軸受 (8) とモニター垂直回転軸 (3) で回転台 (6) と軸受 (4) を接続する。モニター垂直回転軸 (3) でモニター (1) をカメラ一体型VTR (2) の背面から、上部面まで垂直回転出来るようにする。

【0005】

【作用】 前方を撮影する時は、カメラ一体型VTR (2) の背面に上を下にして裏向いて付いているモニター (1) を垂直回転で持ち上げモニター (1) をカメラ一体型VTR (2) の上に立てる。撮影者を撮る場合は、レンズを撮影者に向けカメラ一体型VTR (2) の上部に裏向いて立っているモニター (1) を、180度

回転させ画面を撮影者に向け撮影する。

【0006】

【実施例】 以下、本発明の実施例について説明する。

(イ) モニター (1) の底面中央にモニター水平回転軸 (7) を設け、回転台 (6) の中央に水平回転軸受 (9) を設け、モニター水平回転軸 (7) と水平回転軸受 (9) で、モニター (1) と回転台 (6) を接続する。

(ロ) カメラ一体型VTR (2) の背面上部、左右に軸受 (4) を設け、軸受 (4) にモニター垂直回転軸

(3) を設け、回転台 (6) の左右に回転台軸受 (8) を設け、回転台軸受 (8) とモニター垂直回転軸 (3) で回転台 (6) と軸受 (4) を接続する。

(ハ) モニター垂直回転軸 (3) でモニター (1) をカメラ一体型VTR (2) の背面から、上部面まで垂直回転出来るようにする。

(ニ) モニター垂直回転軸 (3) とモニター水平回転軸 (7) の回転軸を中空にし、その中を配線する。

(ホ) カメラ一体型VTR (2) のレンズ上部にファインダーを一体化しても良い。

(ヘ) モニター水平回転軸 (7) が、全回転しないようにストッパーを設ける。

【0007】 本発明は、以上のような構成で、これを使用したカメラ一体型VTRは、モニターを見ながら撮影でき、垂直、水平回転で自分自身をモニターで見て撮影できる。撮影時以外は、モニター画面がカメラ一体型VTRの背面に裏向けて付けることが出来るのでモニター画面を保護することが出来る。

【0008】

【発明の効果】 撮影時以外は、モニター画面を裏返すことによって、画面を保護することが出来る。モニターをカメラ一体型VTRの上に載せることが出来る。モニターを見て、撮影者自身も撮影できる。モニターだけを回転させるので、回転軸にかかる荷重が少ない。

【図面の簡単な説明】

【図1】 本発明を取り付けたカメラ一体型VTRの斜視図

【図2】 モニターをカメラ一体型VTRの背面に付けている側面図

【図3】 カメラ一体型VTRの上部の位置にモニターを斜めに立てた側面図

【図4】 カメラ一体型VTRの上部の位置にモニターを水平に載せた側面図

【図5】 カメラ一体型VTRの上部の位置にモニターを垂直に立て、90度回転させた側面図

【図6】 本発明の、ビデオモニター水平垂直回転台の部分断面図

【図7】 本発明を取り付けたカメラ一体型VTRの背面図

【符号の説明】

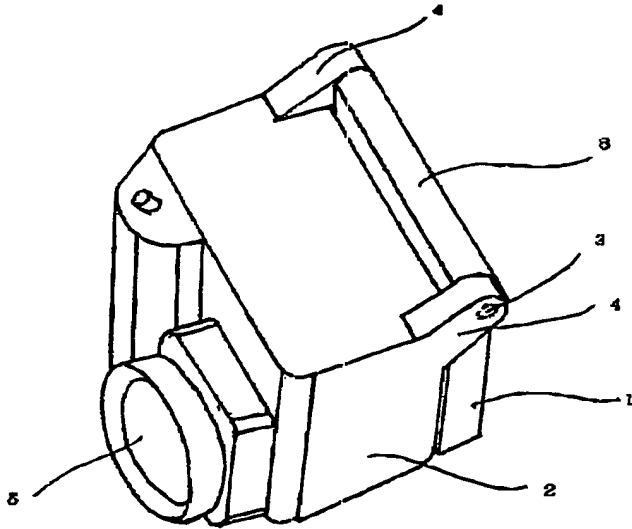
(3)

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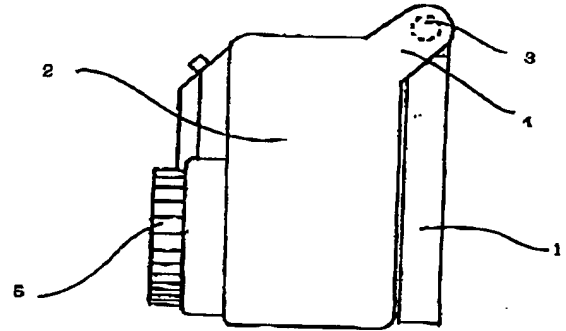
- (1) モニター
- (2) カメラ一体型VTR
- (3) モニター垂直回転軸
- (4) 軸受
- (5) レンズ

- (6) 回転台
- (7) モニター水平回転軸
- (8) 回転台軸受
- (9) 水平回転軸受

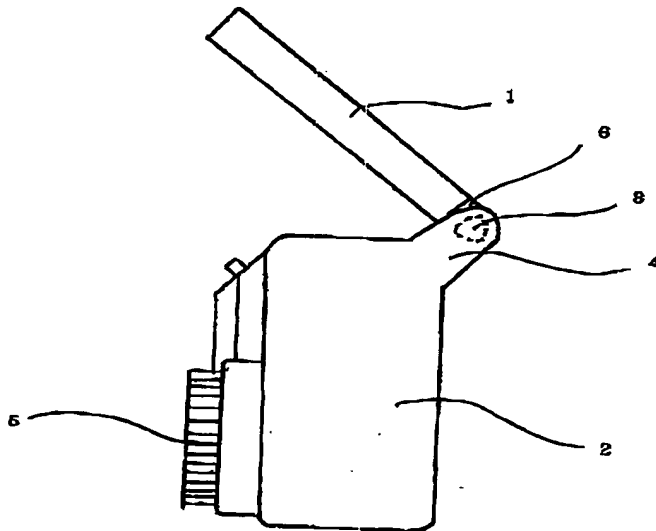
【図1】



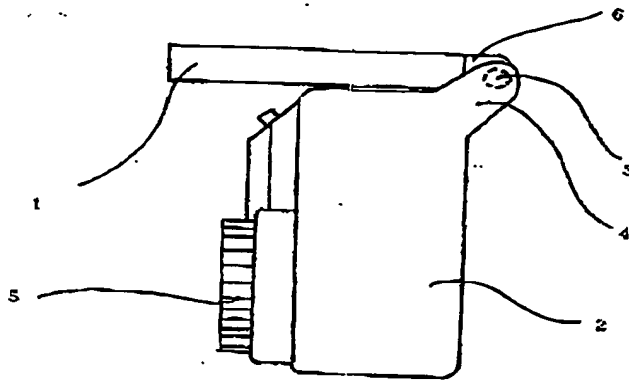
【図2】



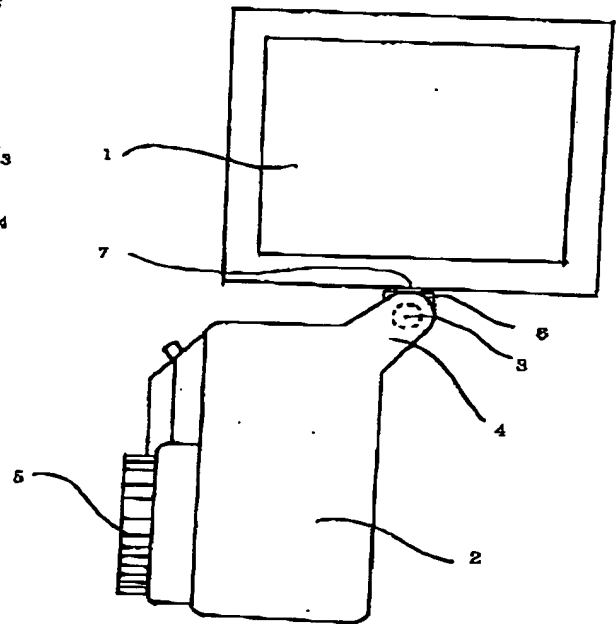
【図3】



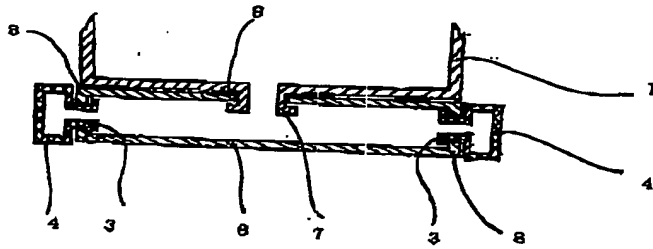
【図4】



【図5】



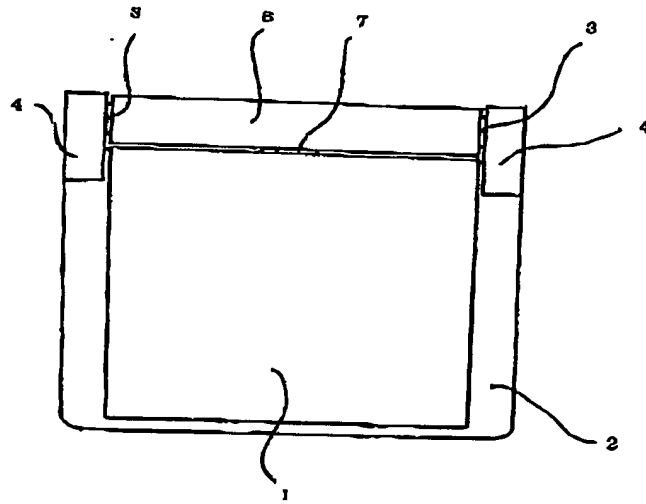
【図6】



(6)

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【図7】



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CLAIMS

[Claim(s)]

[Claim 1] (b) a thin image display device -- establish a monitor level revolving shaft (7) in the center of a base of (1 "it is henceforth written as a monitor"), prepare a level revolving-shaft carrier (9) in the center of a rotation base (6), and connect a rotation base (6) with a monitor (1) by the monitor level revolving shaft (7) and the level revolving-shaft carrier (9).

(b) Bearing (4) is prepared in the tooth-back upper part of a camcorder/movie (2), and right and left, prepare a monitor perpendicular revolving shaft (3) in bearing (4), prepare rotation base bearing (8) in right and left of a rotation base (6), and connect bearing (4) with a rotation base (6) with rotation base bearing (8) and a monitor perpendicular revolving shaft (3).

(c) It can be made to carry out with a monitor perpendicular revolving shaft (3) perpendicular rotation of the monitor (1) from the tooth back of a camcorder/movie (2) to an up side.

The video monitor level perpendicular rotation base constituted as mentioned above.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention can make a camcorder/movie equivalent to a monitor's "about 3 molds or 4 molds"'s flesh-side area.

[0002]

[Description of the Prior Art] Conventionally, the monitor perpendicular rotation mold camcorder/movie which looks at and photos a monitor carried out perpendicular rotation of the video camera on a monitor's side face.

[0003]

[Problem(s) to be Solved by the Invention] Since the video camera is connected beside [to which this had the following faults] a monitor with the revolving shaft, a camcorder/movie is not settled in the area of a monitor's rear face.

[0004]

[Means for Solving the Problem] A monitor level revolving shaft (7) is established in a monitor's (1)'s center of a base, a level revolving-shaft carrier (9) is prepared in the center of a rotation base (6), and a rotation base (6) is connected with a monitor (1) by the monitor level revolving shaft (7) and the level revolving-shaft carrier (9). Bearing (4) is prepared in the tooth-back upper part of a camcorder/movie (2), and right and left, a monitor perpendicular revolving shaft (3) is prepared in bearing (4), rotation base bearing (8) is prepared in right and left of a rotation base (6), and bearing (4) is connected with a rotation base (6) with rotation base bearing (8) and a monitor perpendicular revolving shaft (3). It can be made to carry out with a monitor perpendicular revolving shaft (3) perpendicular rotation of the monitor (1) from the tooth back of a camcorder/movie (2) to an up side.

[0005]

[Function] When photoing the front, a top is turned at the tooth back of a camcorder/movie (2) down, a back ***** monitor (1) is lifted by perpendicular rotation, and a monitor (1) is looked up to on a camcorder/movie (2). When taking a picture of a photography person, the monitor (1) which turns a lens to a photography person and is present in the upper part of a camcorder/movie (2) as flesh-side other side **** is rotated 180 degrees, and a screen is turned and photoed to a photography person.

[0006]

[Example] Hereafter, the example of this invention is explained.

(b) Establish a monitor level revolving shaft (7) in a monitor's (1)'s center of a base, prepare a level revolving-shaft carrier (9) in the center of a rotation base (6), and connect a rotation base (6) with a monitor (1) by the monitor level revolving shaft (7) and the level revolving-shaft carrier (9).

(b) Bearing (4) is prepared in the tooth-back upper part of a camcorder/movie (2), and right and left, prepare a monitor perpendicular revolving shaft (3) in bearing (4), prepare rotation base bearing (8) in right and left of a rotation base (6), and connect bearing (4) with a rotation base (6) with rotation base bearing (8) and a monitor perpendicular revolving shaft (3).

(c) It can be made to carry out with a monitor perpendicular revolving shaft (3) perpendicular rotation of the monitor (1) from the tooth back of a camcorder/movie (2) to an up side.

(d) Make hollow the revolving shaft of a monitor perpendicular revolving shaft (3) and a monitor level revolving shaft (7), and wire the inside of it.

(e) A finder may be united with the lens upper part of a camcorder/movie (2).

(**) Form a stopper so that a monitor level revolving shaft (7) may not all rotate.

[0007] This inventions are the above configurations, and the camcorder/movie which used this can be photoed

looking at a monitor, and can see and photo itself by the monitor by the perpendicular and level rotation. Except the time of photography, since a monitoring screen is made at the tooth back of a camcorder/movie by ** attachment ***** for flesh sides, a monitoring screen can be protected.

[0008]

[Effect of the Invention] Except the time of photography, a screen can be protected by turning a monitoring screen over. A monitor can be carried on a camcorder/movie. A monitor is seen and the photography person itself can take a photograph. Since only a monitor is rotated, there are few loads concerning a revolving shaft.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The perspective view of a camcorder/movie which attached this invention

[Drawing 2] The side elevation which has attached the monitor to the tooth back of a camcorder/movie

[Drawing 3] The side elevation which looked up to the monitor in the location of the upper part of a camcorder/movie aslant

[Drawing 4] The side elevation which put the monitor on the location of the upper part of a camcorder/movie horizontally

[Drawing 5] The side elevation which looked up to the monitor in the location of the upper part of a camcorder/movie perpendicularly, and was rotated 90 degrees

[Drawing 6] The fragmentary sectional view of a video monitor level perpendicular rotation base of this invention

[Drawing 7] Rear view of a camcorder/movie in which this invention was attached

[Description of Notations]

- (1) Monitor
- (2) Camcorder/movie
- (3) Monitor perpendicular revolving shaft
- (4) Bearing
- (5) Lens
- (6) Rotation base
- (7) Monitor level revolving shaft
- (8) Rotation base bearing
- (9) Level revolving-shaft carrier

[Translation done.]

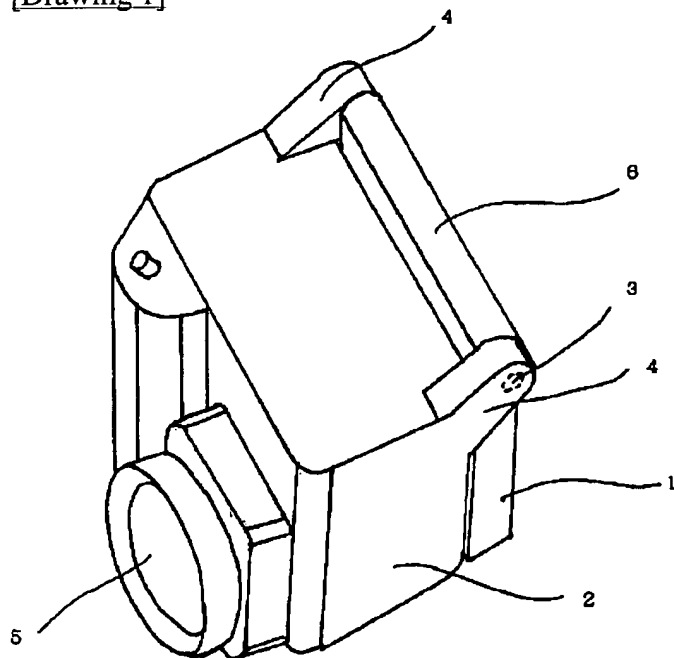
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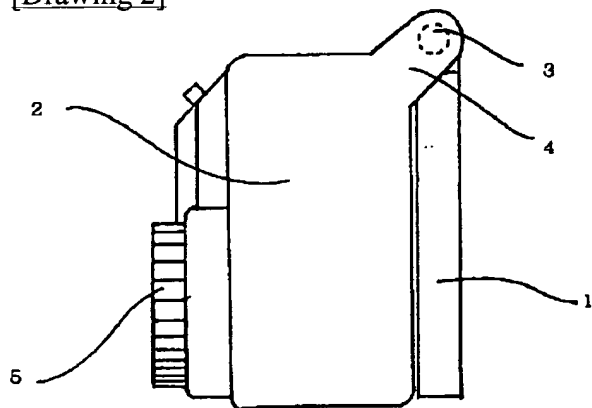
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DRAWINGS

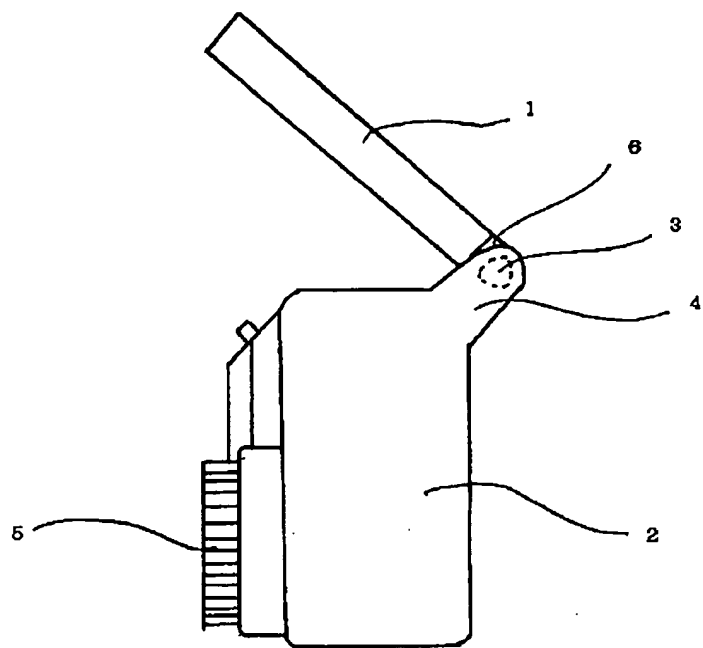
[Drawing 1]



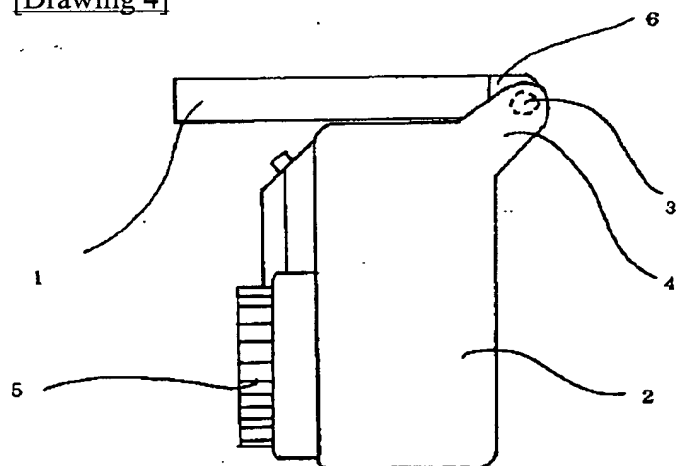
[Drawing 2]



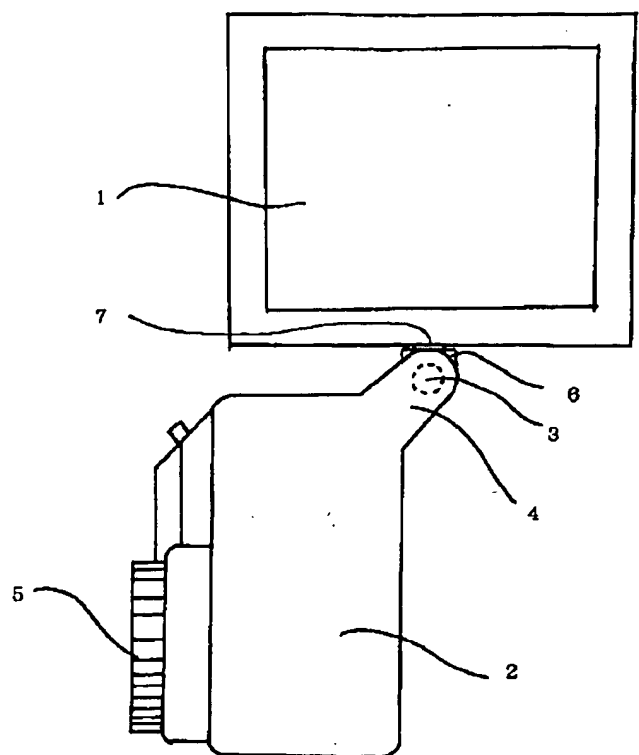
[Drawing 3]



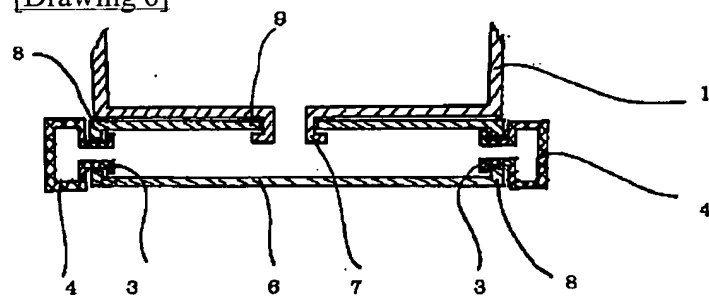
[Drawing 4]



[Drawing 5]



[Drawing 6]



[Drawing 7]

